

## Naps Battery Description

name: SolarPower Gel LL 12V 119Ah  
 nominal voltage: 12 V  
 nom capacity: 119 Ah (100h, 1.75V/cell, 20°C)

type: Valve-regulated lead-acid (VRLA),  
 gel, flat plate  
 for medium-duty photovoltaic use



## Specifications

nom V	Capacity (Ah), 20°C, +/-5%				Dimensions			Weight kg
	10h	20h	72h	100h	L mm	W mm	H mm	
12	96.4	107	116	119	339	173	220	33.0
to	1.75	1.75	1.75	1.75	V/cell			

## Terminals and Contact Description

FT4 - M6 6 mm Female Terminal: 16 mm brass insert for M6 Stainless Steel Bolt

## Brief description and features

'Sealed' valve-regulated lead-acid battery for medium duty photovoltaic use

No water additions needed or possible during lifetime

Gelled electrolyte technology for best results at high temperatures

Grid alloy: Lead-calcium / copper grid alloy

Container / Cover: Grade 6 ABS

*optional: flame retardant case material V-0 (to meet BS 6290 Part 4)*

Lead terminal posts with brass inserts

Plastic flat ring and rubber O ring seal allows for positive plate growth

Self discharge rate: approximately 2.5% per month at 20°C ambient

Design life for non-PV (standby) use: 10 years at 20°C

Cycle life according to manufacturers test data: 800 cycles @ 60% depth of discharge

*This only achieved if immediately fully recharged after every discharge*

## Estimation of service life in PV systems

average working temperature °C	if daily cycling years	less than %
20	8.0	13%
25	5.7	19%
30	4.0	26%
35	2.8	37%

of nominal capacity